


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date October 26, 2012	EPA Reg. No./File Symbol 80697-10	Page 1 of 7
Applicant's/Registrant's Name & Address Zhejiang Tide Crop Science Co., Ltd. 21 Hubble Irvine, CA 92618	Product Technical Abamectin II	

Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Specific Data Requirements					
830.1550	Product Identity and Composition	48776001 47436201	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.1600	Description of Materials Used to Produce the Product	48776001 47436201	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.1620	Description of Production Process	48776001 47436201	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.1650	Description of Formulation Process				Not required ²
830.1670	Discussion of Formation of Impurities	48776001 47436201	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.1700	Preliminary Analysis	47436202	Hebei Veyong BioChemical Co.	PER	See endnote ¹
830.1750	Certified Limits	48776001 47436201	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.1800	Enforcement Analytical Method	48776001 47436202	Zhejiang Tide CropScience Hebei Veyong BioChemical Co.	OWN PER	See endnote ¹
830.6302	Color	47436203	Hebei Veyong BioChemical Co.	PER	
830.6303	Physical State	47436203	Hebei Veyong BioChemical Co.	PER	
830.6304	Odor	47436203	Hebei Veyong BioChemical Co.	PER	
Signature 			Name and Title P. Leanne Pruett, Consultant		Date Oct. 26, 2012

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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	48776002 47086804	Zhejiang Tide CropScience Zhejiang Tide CropScience	OWN OWN	Waiver ³
830.6314	Oxidation/Reduction: Chemical Incompatibility	48776002	Zhejiang Tide CropScience	OWN	Waiver ⁴
830.6315	Flammability	48776002	Zhejiang Tide CropScience	OWN	Waiver ⁵
830.6316	Explosability	48776002	Zhejiang Tide CropScience	OWN	Waiver ⁶
830.6317	Storage Stability	[SUBMITTED]	Zhejiang Tide CropScience	OWN	See Endnote ⁷
830.6319	Miscibility				Not applicable ⁸
830.6320	Corrosion Characteristics	[SUBMITTED]	Zhejiang Tide CropScience	OWN	See Endnote ⁷
830.6321	Dielectric Breakdown Voltage				Not applicable ⁸
830.7000	pH	47436203	Hebei Veyong BioChemical Co.	PER	
830.7050	UV/Visible Absorption	47436203	Hebei Veyong BioChemical Co.	PER	
830.7100	Viscosity				Not applicable ⁸
830.7200	Melting Point/Melting Range	47436203	Hebei Veyong BioChemical Co.	PER	
830.7220	Boiling Point/Boiling Range				Not applicable ⁸
830.7300	Density/Relative Density/Bulk Density	47436203	Hebei Veyong BioChemical Co.	PER	
830.7370	Dissociation Constants in Water	48776002	Zhejiang Tide CropScience	OWN	Waiver ⁹
830.7520	Particle size, fiber length, and diameter distribution				Not applicable ⁸


Signature	Name and Title	Date
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	48776002	Zhejiang CropScience	PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7560
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7560
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	48776002	Zhejiang CropScience	PL	
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure	48776002	Zhejiang CropScience	PL	
970.1100	Acute Oral Toxicity: Rat	47436205	Hebei Veyong BioChemical Co.	PER	
870.1200	Acute Dermal Toxicity: Rat	47436206	Hebei Veyong BioChemical Co.	PER	
870.1300	Acute Inhalation Toxicity: Rat	47436207	Hebei Veyong BioChemical Co.	PER	
870.2400	Primary Eye Irritation: Rabbit	47436208	Hebei Veyong BioChemical Co.	PER	
870.2500	Primary Dermal Irritation	47436209	Hebei Veyong BioChemical Co.	PER	
870.2600	Dermal Sensitization	47436210	Hebei Veyong BioChemical Co.	PER	
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Applicant's/Registrant's Name & Address	Zhejiang Tide Crop Science Co., Ltd. 21 Hubble Irvine, CA 92618		Product	Technical Abamectin II	


Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Zhejiang Tide CropScience Co., Ltd. will make offers-to-pay to the following companies on the September 27, 2012 Data Submitters List for Abamectin.					
Abamectin Generic Data Requirements					
		Cite-All	Syngenta Crop Protection, Inc.	PAY	
		Cite-All	Bayer CropScience LP	PAY	
		Cite-All	FMC Corp. Agricultural Products Group	PAY	
		Cite-All	Chemtura Corp.	PAY	
		Cite-All	Whitmire Micro-Gen Research Laboratory	PAY	
		Cite-All	Merck & Co., Inc.	PAY	
		Cite-All	Cleary Chemicals, LLC	PAY	
		Cite-All	McLaughlin Gormley King, Co.	PAY	
		Cite-All	Cheminova A/S	PAY	
		Cite-All	S. C. Johnson & Son Inc.	PAY	
		Cite-All	J. J. Mauget Co.	PAY	
		Cite-All	Nufarm Limited	PAY	
		Cite-All	Y-Tex Corp.	PAY	
Signature			Name and Title		Date
			P. Leanne Pruett, Consultant		Oct. 26, 2012

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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		Cite-All	ZEP Commercial Sales & Service	PAY	
		Cite-All	BASF Sparks LLC	PAY	
		Cite-All	Nufarm Americas Inc.	PAY	
		Cite-All	Makhteshim-Agan of North America Inc.	PAY	
		Cite-All	Spray Drift Task Force	PAY	
		Cite-All	Cheminova, Inc.	PAY	
		Cite-All	BASF Corp.	PAY	
		Cite-All	Outdoor Residential Exposure Task Force, LLC	PAY	
		Cite-All	Agricultural Reentry Task Force	PAY	
		Cite-All	Nations Ag II, LLC	PAY	
		Cite-All	Rockwell Laboratories, Ltd.	PAY	
		Cite-All	Farmsaver.com, LLC	PAY	
		Cite-All	Innovative Pest Control Products	PAY	
		Cite-All	FIFRA Endangered Species Task Force	PAY	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		Cite-All	Residential Exposure Joint Venture	PAY	
		Cite-All	Agricultural Handlers Exposure Task Force	PAY	
		Cite-All	Gro-Pro, LLC	PAY	
		Cite-All	Rotam USA LLC	PAY	
		Cite-All	Rotam Ltd.	PAY	
		Cite-All	Etigra LLC	PAY	
		Cite-All	Ensystex III, Inc.	PAY	
		Cite-All	Rotam Agrochemical Co. Ltd.	PAY	
		Cite-All	Celsius Property B.V. Amsterdam	PAY	
		Cite-All	AgSaver, LLC	PAY	
		Cite-All	Ensystex IV, Inc.	PAY	
		Cite-All	Tide International, USA, Inc.	PAY	
		Cite-All	Hebei Veyong Bio-Chemical Co., Ltd.	PAY	
		Cite-All	Generic Endangered Species Task Force	PAY	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		Cite-All	Abamax Chemical LLC	PAY	
		Cite-All	Redeagle International LLC	PAY	
		Cite-All	Willowood, LLC	PAY	
		Cite-All	Willowood Abamectin, LLC	PAY	
Signature 			Name and Title P. Leanne Pruett, Consultant		Date Oct. 26, 2012

Endnotes for Data Matrix for Technical Abamectin II

October 26, 2012

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- ¹ **830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800** - The production process report MRID 47436201 was submitted by the original data submitter and owner, Abamax Chemical LLC, and was used to support the registration of Abamectin Technical (EPA Reg. No. 85317-1). The data and registration were transferred on October 13, 2009 to the manufacturer, Hebei Veyong Bio Chemical Co., Ltd. That technical registration of Abamectin Technical (EPA Reg. No. 84456-1) was voluntarily cancelled June 15, 2011 by the registrant. Hebei Veyong Bio Chemical Co., Ltd has given authorization to Zhejiang Tide CropScience Co. Ltd. to rely upon Hebei Veyong's previously-submitted data to support the registration of Technical Abamectin II. Hebei Veyong has certified that the manufacturing process has not changed since the original description of the process was documented in MRID 47436201.
- ² **830.1650** - Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production process information.
- ³ **830.6313** - Zhejiang Tide CropScience Co. Ltd. will not be packaging Technical Abamectin in metal containers, nor is Abamectin expected to come into contact with metals or metal ions during its storage. Therefore, Zhejiang Tide seeks a waiver from the stability to metal and metal ions portion of this data requirement for Technical Abamectin II. Data for stability to elevated temperatures were submitted for Zhejiang Tide CropScience's Technical Abamectin (EPA Reg. No. 80697-5) and those data are being cited to support Technical Abamectin II stability data (MRID 47086804).
- ⁴ **830.6314** - Zhejiang Tide seeks a waiver from the oxidation/reduction study because Technical Abamectin II does not contain any material that can be considered an oxidizing or reducing agent.
- ⁵ **830.6315** - Zhejiang Tide seeks a waiver from conducting the flammability study with Technical Abamectin II because it is a solid and does not contain any material that can be considered to be flammable.
- ⁶ **830.6316** - Zhejiang Tide seeks a waiver from this data requirement because Abamectin does not contain the chemical bonds or functional groups associated with explosive chemicals.
- ⁷ **830.6317, 830.6320** - Storage stability and corrosion characteristics studies were submitted to EPA on 10/19/2012. MRID number has not yet been identified for these studies.
- ⁸ **830.6319, 830.6321, 830.7100, 830.7220, 830.7520** - Miscibility data are not applicable because Technical Abamectin II is not an emulsifiable liquid. Dielectric breakdown voltage is not applicable because Technical Abamectin is a technical grade material and not an end-use product. Viscosity data are not applicable to Technical Abamectin II because it is a solid. Boiling point data are not applicable to solids (refer to melting point data). Particle size, fiber length and diameter distribution is not applicable to Technical Abamectin II because it is not a water-insoluble or fibrous material.
- ⁹ **830.7370** - Zhejiang Tide seeks a waiver from this data requirement because Abamectin does not contain any functional group that would dissociate.